b). Amendments to the Claims

Claim 1 (Currently amended) An MPEG compatible digital signal processing system comprising:

an input network for receiving a data stream of MPEG coded data;

a coupling network responsive to said datastream for deriving therefrom a predetermined sequence of image data; and

an image signal processor responsive to said image data wherein

said coupling network comprises interleaving means responsive to said datastream of MPEG coded data for deriving therefrom at least first and second datastreams, said first datastream being constituted by a first predetermined sequence of interleaved first and second spatially adjacent pixel block components and said second datastream being constituted by a second predetermined sequence of interleaved third and fourth spatially adjacent pixel block components for producing decoded image information selectable for producing either high resolution or reduced data image reproduction of a complete image.

Claim 2 (Original) A system according to claim 1, wherein

said interleaved image data comprises data block components of an MPEG compatible macroblock containing pixel representative information.

Claim 3 (Currently Amended) A system according to claim 1, wherein:

said interleaving means produces a first datastream of interleaved first and second spatially adjacent pixel block components from each macroblock of said MPEG coded data and a second datastream of interleaved third and

fourth spatially adjacent pixel block components from each macroblock of said MPEG coded data.

Claim 4 (Currently amended) A system according to claim 3, wherein

said first, second, third and fourth pixel block components are spatially adjacent components of an MPEG compatible macroblock.

Claim 5 (Previously amended) A system according to claim 1, wherein said input network includes

a decoder for decoding said MPEG coded datastream; and

a decompressor for decompressing output signals from said decoder; wherein

said interleaving network responds to output signals from said decompressor.

Claim 6 (Previously amended) A system according to claim 1 and further including

a memory for storing image representative data; and

a motion compensation network coupled to said memory; wherein

said image signal processor and said motion compensation network comprise a DPCM loop.

Claim 7 (Currently Amended) A method for processing a datastream of MPEG coded image representative data, comprising the steps of:

decoding said data to produce a decoded datastream;

producing from said decoded datastream a predetermined sequence of interleaved data blocks representing image pixels;

processing said data blocks; and

storing data blocks from said processing step; wherein

said producing step comprises producing multiple datastreams, each datastream having a different predetermined sequence of mutually interleaved pixel block components ~~suitable~~ selectable for either high resolution or reduced resolution data image reproduction modes for a complete image.

Claim 8 (Currently amended) A method according to claim 7, wherein

said producing step produces a first datastream of interleaved spatially adjacent first and second pixel block components, and a second datastream of interleaved spatially adjacent third and fourth pixel block components.

Claim 9 (Original) A method according to claim 8, wherein

said interleaved pixel blocks comprise an MPEG compatible macroblock.

Claim 10 (Original) A method according to claim 7, wherein

said processing step includes DPCM processing of pixel data.

Claim 11 (Original) A method according to claim 10, wherein said DPCM processing step includes the further steps of

decompressing data blocks stored in said storing step; and

motion compensation processing decompressed data blocks produced by said decompressing step.

Claim 12 (Original) A method according to claim 9, wherein

said processing step comprises the steps of predicting pixel values and compressing pixel values.

Claim 13 (Currently amended) A method for processing a datastream of MPEG coded image representative data, comprising the steps of:

receiving an input datastream of MPEG coded data;

decoding said input datastream to produce a decoded datastream of data blocks containing pixel representative information;

processing said decoded datastream of datablocks to produce therefrom a first datastream comprising at least first and second groups of data block components having pixel representative information interleaved in a first predetermined sequence, and a second datastream comprising at least third and fourth groups of data block components having pixel representative information interleaved in a second predetermined sequence; and

decoding said first and second datastreams to produce decoded image information selectable for reproducing complete images in either high resolution or reduced resolution image reprduction modes.

Claim 14 (Original) A method according to claim 13, wherein

said first group is constituted by first and second pixel blocks of an MPEG compatible macroblock; and

said second group is constituted by third and fourth pixel blocks of an MPEG compatible macroblock.

Claim 15 (Original) A method according to claim 14, wherein

said first, second, third and fourth groups comprise the same macroblock.